

Table P-14: 1990-2000 Key Source Tier 1 Analysis - Trend Assessment

IPCC Source Categories	Direct Greenhouse Gas	Base Year Estimate (Tg CO ₂ Eq.)	Current Year Estimate (Tg CO ₂ Eq.)	Trend Assessment	Percent Contribution to Trend	Cumulative Total
CO ₂ Emissions from Stationary Combustion - Oil	CO ₂	662.46	640.72	0.01	16	16
CO ₂ Emissions from Stationary Combustion - Coal	CO ₂	1,692.60	2,030.09	0.01	13	29
Mobile Combustion: Road & Other	CO ₂	1,235.49	1,503.16	0.01	13	42
CO ₂ Emissions from Stationary Combustion - Gas	CO ₂	952.76	1,162.91	0.01	10	52
Emissions from Substitutes for Ozone Depleting Substances	Several	0.94	57.78	0.01	8	60
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	213.41	203.48	0.01	6	66
Fugitive Emissions from Coal Mining and Handling	CH ₄	87.12	60.97	<0.01	5	71
CO ₂ Emissions from Other Industrial Processes	CO ₂	123.65	107.56	<0.01	5	76
Fugitive Emissions from Oil & Gas Operations	CH ₄	147.64	138.22	<0.01	4	80
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	127.88	123.86	<0.01	3	83
Mobile Combustion: Marine	CO ₂	59.43	89.91	<0.01	3	86
SF ₆ Emissions from Electrical Equipment	SF ₆	31.23	14.45	<0.01	3	89
PFC Emissions from Aluminum Production	PFCs	18.11	7.95	<0.01	2	90
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	34.98	29.79	<0.01	1	92
Indirect CO ₂ Emissions from CH ₄ Oxidation	CO ₂	30.90	26.30	<0.01	1	93
N ₂ O Emissions from Adipic Acid Production	N ₂ O	14.89	8.11	<0.01	1	94
CO ₂ Emissions from Waste Incineration	CO ₂	14.09	22.47	<0.01	1	95
Mobile Combustion: Aviation	CO ₂	176.88	196.45	<0.01	1	96
Indirect N ₂ O Emissions from Nitrogen Used in Agriculture	N ₂ O	73.60	79.81	<0.01	1	97
CH ₄ Emissions from Manure Management	CH ₄	29.19	37.46	<0.01	1	97
PFC, HFC, and SF ₆ Emissions from Semiconductor Manufacturing	SF ₆	2.86	7.37	<0.01	1	98
Direct N ₂ O Emissions from Agricultural Soils	N ₂ O	193.49	217.75	<0.01	0	98
CO ₂ Emissions from Cement Production	CO ₂	33.28	41.07	<0.01	0	99
SF ₆ Emissions from Magnesium Production	SF ₆	5.50	4.00	<0.01	0	99
Non-CO ₂ Emissions from Stationary Combustion	CH ₄	7.90	7.50	<0.01	0	99
Mobile Combustion: Road & Other	CH ₄	4.67	4.09	<0.01	0	99
CH ₄ Emissions from Wastewater Handling	CH ₄	24.25	28.70	<0.01	0	99
N ₂ O Emissions from Manure Management	N ₂ O	16.03	17.52	<0.01	0	99
CH ₄ Emissions from Rice Production	CH ₄	7.12	7.50	<0.01	0	100
N ₂ O Emissions from Nitric Acid Production	N ₂ O	17.85	19.79	<0.01	0	100
CO ₂ Emissions from Lime Production	CO ₂	11.24	13.32	<0.01	0	100
N ₂ O Emissions from Wastewater Handling	N ₂ O	7.04	8.46	<0.01	0	100
CH ₄ Emissions from Other Industrial Processes	CH ₄	1.19	1.67	<0.01	0	100
Non-CO ₂ Emissions from Stationary Combustion	N ₂ O	12.82	14.93	<0.01	0	100
CO ₂ Emissions from Natural Gas Flaring	CO ₂	5.51	6.06	<0.01	0	100
CO ₂ Emissions from Stationary Combustion - Geothermal Energy	CO ₂	0.22	0.02	<0.01	0	100
Mobile Combustion: Marine	N ₂ O	0.36	0.63	<0.01	0	100
N ₂ O Emissions from Waste Incineration	N ₂ O	0.29	0.23	<0.01	0	100
Mobile Combustion: Road & Other	N ₂ O	48.86	55.74	<0.01	0	100
Mobile Combustion: Marine	CH ₄	0.07	0.12	<0.01	0	100
Mobile Combustion: Aviation	N ₂ O	1.71	1.92	<0.01	0	100
N ₂ O Emissions from Agricultural Residue Burning	N ₂ O	0.37	0.46	<0.01	0	100
Mobile Combustion: Aviation	CH ₄	0.16	0.16	<0.01	0	100
CH ₄ Emissions from Agricultural Residue Burning	CH ₄	0.68	0.79	<0.01	0	100
TOTAL		6,130.72	7,001.22	0.09	100	

Note: Sinks (e.g., LUCF, Landfill Carbon Storage) are not included in this analysis.